

GRAND CANYON NATIONAL PARK

PUBLIC USE REPORTING AND COUNTING INSTRUCTIONS

Following are detailed instructions for collecting and reporting data to be entered on Form 10-157, Revised, Monthly Public Use Report by Grand Canyon National Park. These instructions are effective the date of issuance and will continue in effect unless changed by amendment or memorandum from the Socio-Economic Studies Division to the superintendent approving a requested change.

Each item below describes the procedures to be followed in collecting public use data and summarizing the various elements of those data for entry on the corresponding line on the 10-157, Monthly Public Use Report.

Recreation Visits

1. An inductive loop traffic counter is located 1/8 mile north of the south entrance kiosk on the northbound lane. The traffic count is reduced by the number of buses, nonrecreation vehicles (11 percent of total traffic minus buses), and nonreportable vehicles (18 percent of total traffic minus buses). The reduced traffic count is multiplied by the persons-per-vehicle (PPV) multiplier in Table 1.
2. An inductive loop traffic counter is located 1/8 mile west of the Desert View entrance kiosk on the westbound lane. The traffic count is reduced by the number of buses. The reduced traffic count is multiplied by the PPV multiplier in Table 1.
3. An inductive loop traffic counter is located north of the North Rim entrance kiosk on the southbound lane. The traffic count is reduced by the number of buses. The reduced traffic count is multiplied by the PPV multiplier Table 1.
4. A remote sensor (Compu-tech Systems) traffic counter is located at the Tuweep entrance across the entire road. The traffic count is divided by two (2) to adjust for entering and exiting. The adjusted traffic count is multiplied by the PPV multiplier in Table 1.
5. The number of bus visitors entering at the south entrance and the number of visitors arriving by Navihopi buses.

6. The number of bus visitors at Desert View and north entrances.
7. The number of rivers users entering via Colorado River. This is determined by permits issued at Lee's Ferry, and concessionaire reports at Grand Wash and Lee's Ferry.
8. The number of visitors who arrive by the Grand Canyon Train Company. This count is supplied by the concessionaire.
9. The number of visitors who enter the North Rim District, in the winter, who are not recorded by the traffic counter in C above.

Non-recreation Visits

An inductive loop traffic counter is located 1/8 mile north of the south entrance kiosk on the northbound lanes. The traffic count is reduced for buses (61 per day). The reduced traffic count is multiplied by 0.11 to determine the number of non-recreation vehicles. The adjusted traffic count is multiplied by the PPV multiplier in Table 1.

Table 1.
Persons-Per Vehicle Multiplier

Month	South Entrance	Desert View Entrance	North Entrance	Tuweep Entrance
January	2.7	2.5	0	2.6
February	2.6	2.4	0	3.2
March	2.8	2.8	0	2.8
April	3.0	3.0	0	3.5
May	2.7	2.6	2.6	3.0
June	3.0	3.0	3.3	3.0
July	3.4	3.1	3.3	3.1
August	3.3	3.1	3.3	3.2
September	2.5	2.7	2.4	2.9
October	2.5	2.7	2.4	2.6
November	2.6	2.4	2.4	2.6
December	2.7	2.2	2.4	2.5

Recreation Visitor Hours

The number of recreation visitors by location are multiplied by the length of stay multipliers in Table 2.

Table 2
Length-of-stay Multipliers by Location*

Location	Length-of-stay
Visitors to South Entrance and Desert View	16 Hours
North Entrance	18 Hours
Tuweep	12 Hours
River Users	24 Hours
Visitors Arriving by Train	4 Hours

*Source Unknown

Non-recreation Visitor Hours

The total non-recreation visits are multiplied by one hour (1.0).

Overnight Stays

Concessionaire Lodging - El Tovar, Bright Angel, Maswick, Yavapai, Grand Canyon Lodge, Phantom Ranch

The number of visitors staying overnight as reported by the concessionaire.

Concessionaire Campgrounds - Trailer Village

The number of visitors staying overnight as reported by the concessionaire.

NPS Campgrounds - Desert View, Mather, North Rim, and Tuweep

1. The number of total overnight stays at Mather Campground is reduced by the number of group campers. The number of tent campers is estimated by multiplied the reduced overnight stays by 0.675. The number of RV campers is estimated by multiplied the reduced overnights stays by 0.325.
2. The number of tent or RV sites occupied at Desert View, North Rim and Tuweep are multiplied by the persons per site multiplier (2.6 for tents and 3.7 for RV'S).

NPS Backcountry - Bright Angel, Cottonwood, Indian Gardens, River Users, and Miscellaneous locations.

The number of visitors is multiplied by the number of nights stayed as determined by permits issued.

NPS Miscellaneous - Mather, North Rim

The number of group campers is multiplied by the number of nights stayed.

Special Use Data

- Line a. Visitors entering at Desert View
- Line b. Visitors entering at South Entrance
- Line c. Visitors entering at North Rim
- Line n. The number of tour buses